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Item #41

STATE OF NEVADA

JOHN A. FULTON, DIRECTOR

Bureau of Mines

BOX C, UNIVERSITY STATION

MACKAY SCHOOL OF MINES
RENO, NEVADA

August 15, 1935

MINING LOG OF NORTHERN NEVADA TRIP,

OF

Jay A. Carpenter, Mining Engineer, and Wm. I. Smyth, Metallurgist,

Aug. 2-12 Incl., 1935

By

Jay A. Carpenter, E.M.

August 2.- Rochester.

Rochester Plymouth Mines, Co. Formerly known as the Buck and Charley Mine until taken over in 1935 by Mr. Chas. Oster, with construction of a 50 ton flotation mill. Supt. in charge, Chas Mayer; Mill Supt., Bill Heina; Assayer, Larson, (former U. of Nevada student.)

Mining on a steep narrow vein is through tunnels, and underground shafts, by open stull stope, or filled stope from vein reject and walls. Shaft at 200 ft. depth furnishes water for milling. Crosscut on 200 ft. level now being driven to intersect the vein on the projected ore shoot. The ore shoot is pretty well worked out to the 100 ft. level of the shaft.

Mine equipment: 100 HP motor driving direct a Gardner Denver 9 3/4" (low) 6" (high) by 7" stroke, 2 stage, 870 r.p.m. V-type compressor. Total floor space, 12' long, 6' wide. Unit has given excellent service with no trouble except for heavy incrustation from the iron-bearing mine water used for cooling. There is also a Gardner Denver #2 sharpener with coal forge, emery, and drill press. Jack-hammer drills and light stopers are used.

Underground station about 20' by 30' by 10' high in solid rock with inclined raise for hoisting cable. Shaft - 3 compartment - 4½' by 4½' each, using now one compartment only for a 15 cu. ft. skip. Hoist is a Box single drum, with clutch and band brake, and double plain gear reduction to 30 HP motor.

Mr. Mayer is a practical mining man who sold the property to the company and has now been placed in charge to supply ore to the mill.

The mill is an excellently designed and constructed 50 ton flotation mill, now running 16 hours a day. (For milling details consult Wm. I. Smyth's report.

UPPER ROCHESTER.

No leasers are working at the Rochester mine. Jack Foley and Oscar Cline are working on their own recently located claims above the old Pitt tunnel, adjoining the Rochester mine to the north, on an oxidized silver vein favorably exposed through tunnel workings, with a carload shipment on the dump. E. Bennett and G. Emmigner did their annual work on two claims of promise to the east of the Rochester patented claims. Bert Stokeley is chloriding on his claims located to the south of the Rochester property.

The Nenzel Crown Point has been taken over by "Oklahoma oil men," but the work accomplished to date is a report on the mine by Mr. Huntington, the surveyor.

August 3. Seven Troughs.

Earl Laughton is superintendent and also leases the mill, dumps, and Tyler shaft. W. B. Parsons (Ex-U. of N.), is mill supt. and Joe Lyon (Ex-U. of N.), is dump screening and trucking contractor. The last lease in the mine at the Tyler shaft is about to discontinue. This is the second and last season of running dumps through the mill. A $1\frac{1}{4}$ yd. gas shovel puts 5 ton loads on the two Ford trucks that haul about 250 yds. to a gasoline engine driven screening plant and stacker. The minus 5/8" ring product, about $\frac{1}{2}$ to 1/3 of the dump product, is hauled 3 miles down to the mill in 9 ton loads on a 4 ton truck at 45 min. per a round trip. The overall contract price is $1.10 per ton at the mill, and over 100 tons are delivered per day.

Also Mr. Lyon is hauling ore for Mr. Dawes from Scossa, 32 miles away, for a milling at the Seven Troughs mill.

Power for milling. Generated by a 360 HP 6 cylinder Fairbanks-Morse deisel carrying now a 120 KW a load. It requires daily 320 gal. of 27 plus fuel oil and 5 to 6 gal. of lubricating oil. Direct cost, including labor of 4 men, 15¢ to 20¢ per KW hour. This unit furnishes steady power except for nozzle cleaning once a week of one hour and part cleaning once in two weeks of two hours. The distressing